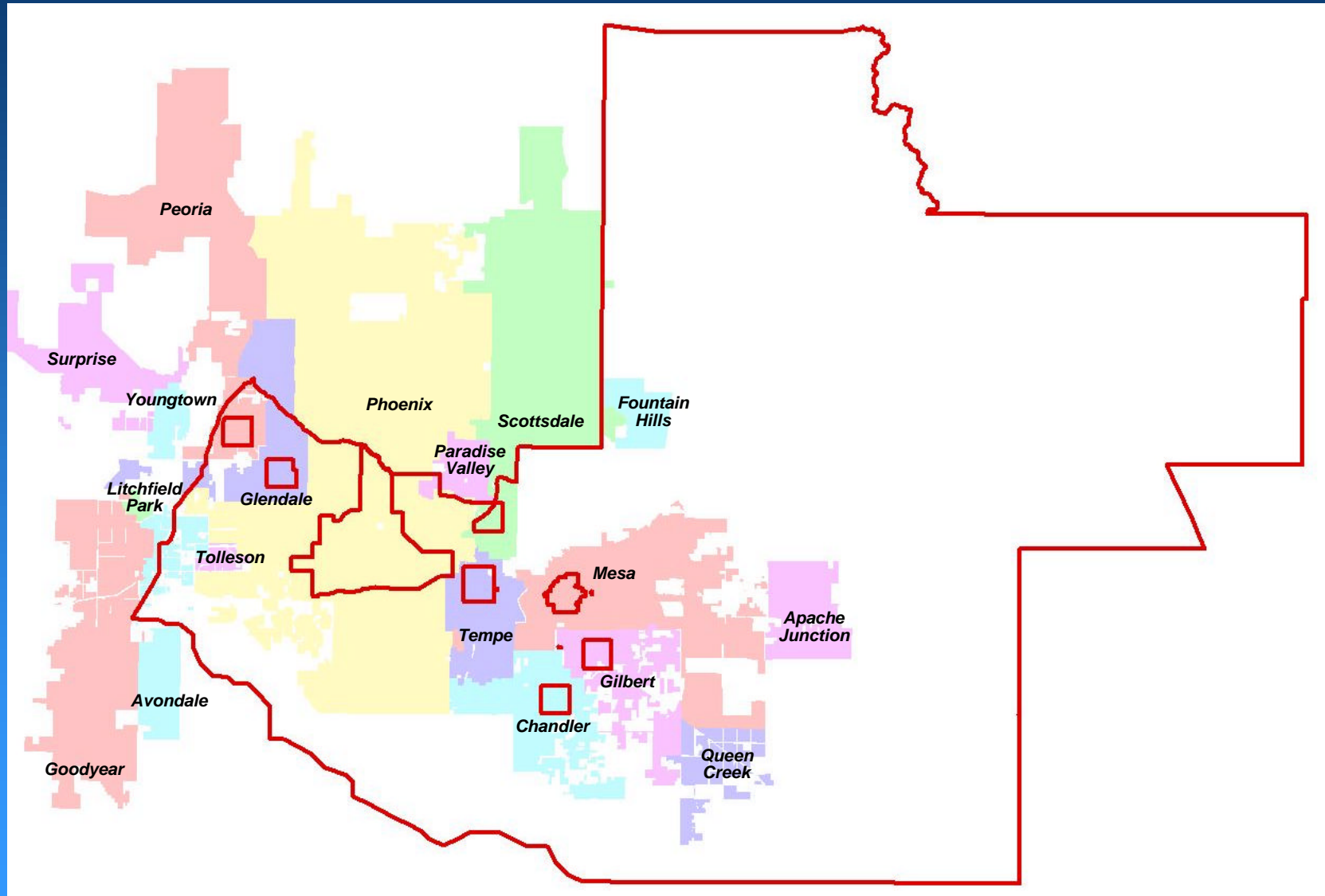


SRP Summer Preparedness

Year 2001

SRP Service Territory



Summary of Year 2001 Projected Conditions

- **Transmission, SRP generation and planned energy purchases are adequate to serve the forecasted year 2001 demand**
- **Contingency plans are in place to handle emergency events**

Operating Reserves

- **Protect against loss of generation or transmission resources used to deliver energy to firm load**
- **Targeted reserve levels based on:**
 - Amount of firm load
 - Largest single hazard

Summer 2001 Reserves

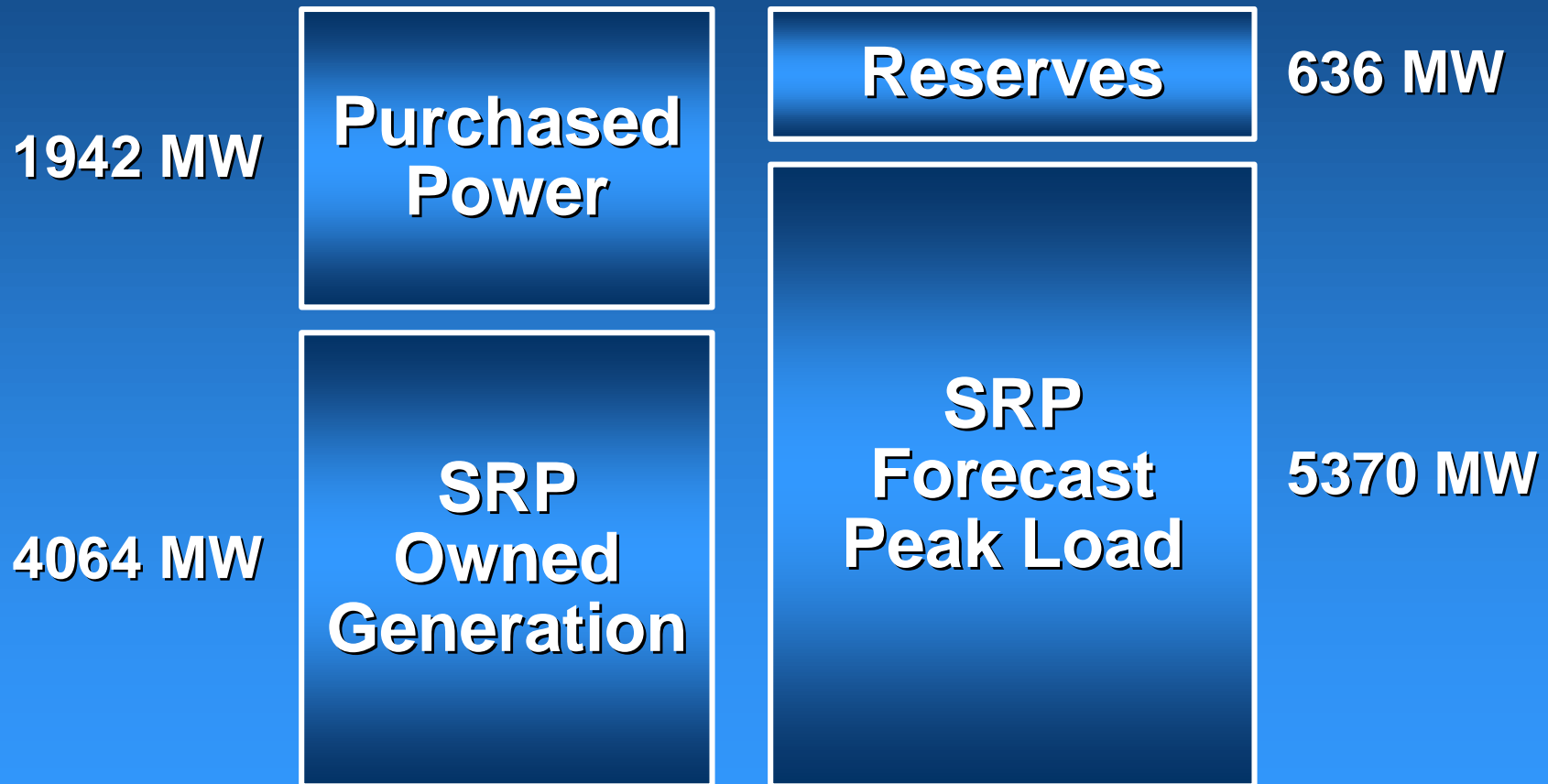
	Jun	Jul	Aug	Sep
Load (MW)*	4980	5370	5370	4840
Actual reserves**	627	635	636	841
Reserves				
Valley	627	385	385	841
Stranded	0	250	251	0

* Based on 02/14/01 load forecast

** Meets WSCC and NERC Criteria
Meets Southwest Reserve Sharing Group Criteria

SRP Resources - 2001

Total 6006 MW



Operating Plan

System Improvements 2001

- **Projects increasing import and load serving capability**
 - Browning 500/230kV receiving station
 - Four 230/69kV transformer additions
 - Four new residential substations
 - Six 69/12kV transformer additions
 - Seven capacitor additions
 - Santan Dry Low NOX Project

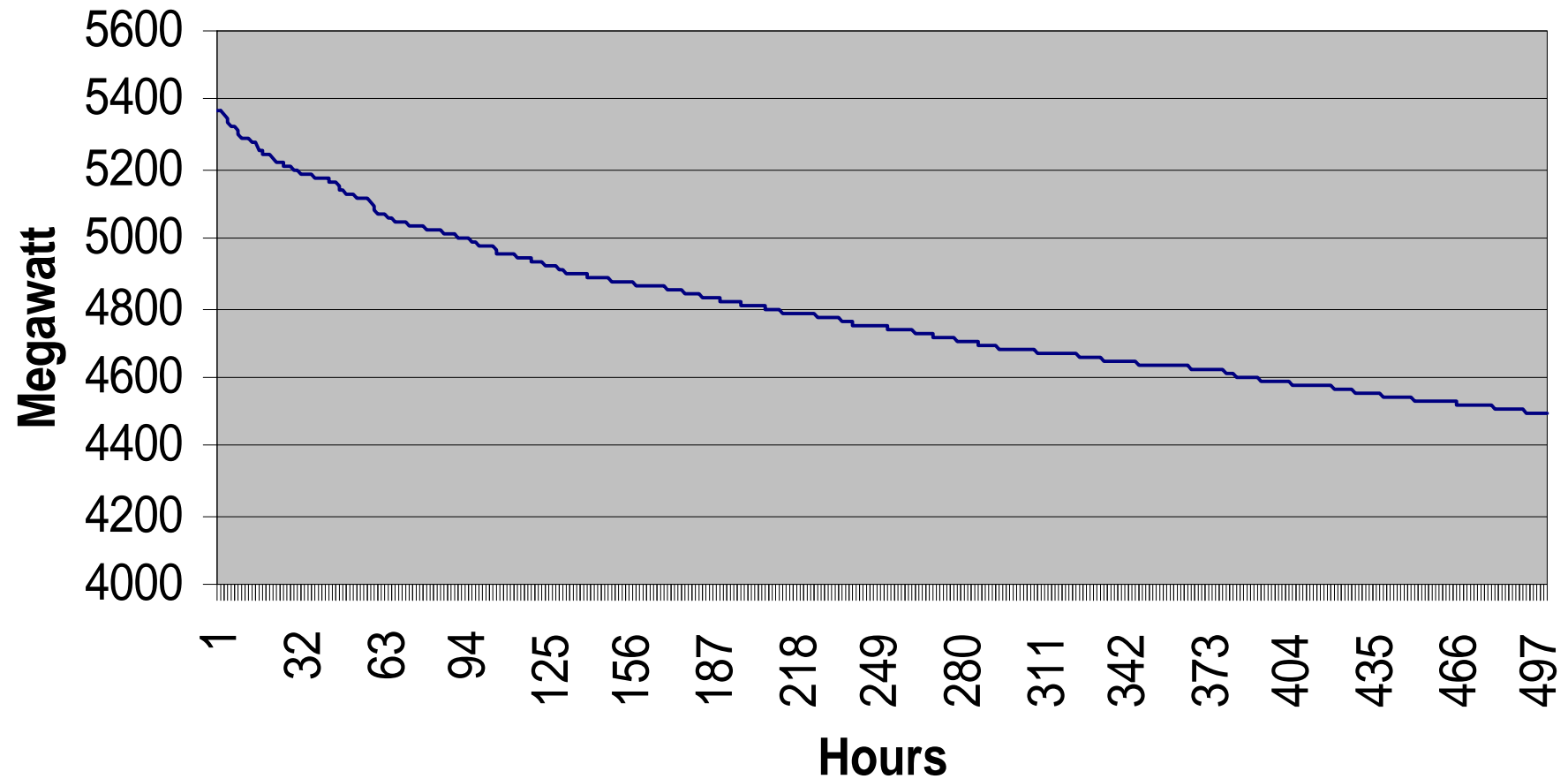
System Preparation

Summer substation and line maintenance will be complete by summer

- Major line patrols
- Preventative maintenance
- Pole work
- Personnel training
- Tree trimming
- Cable replacement
- Storm plan

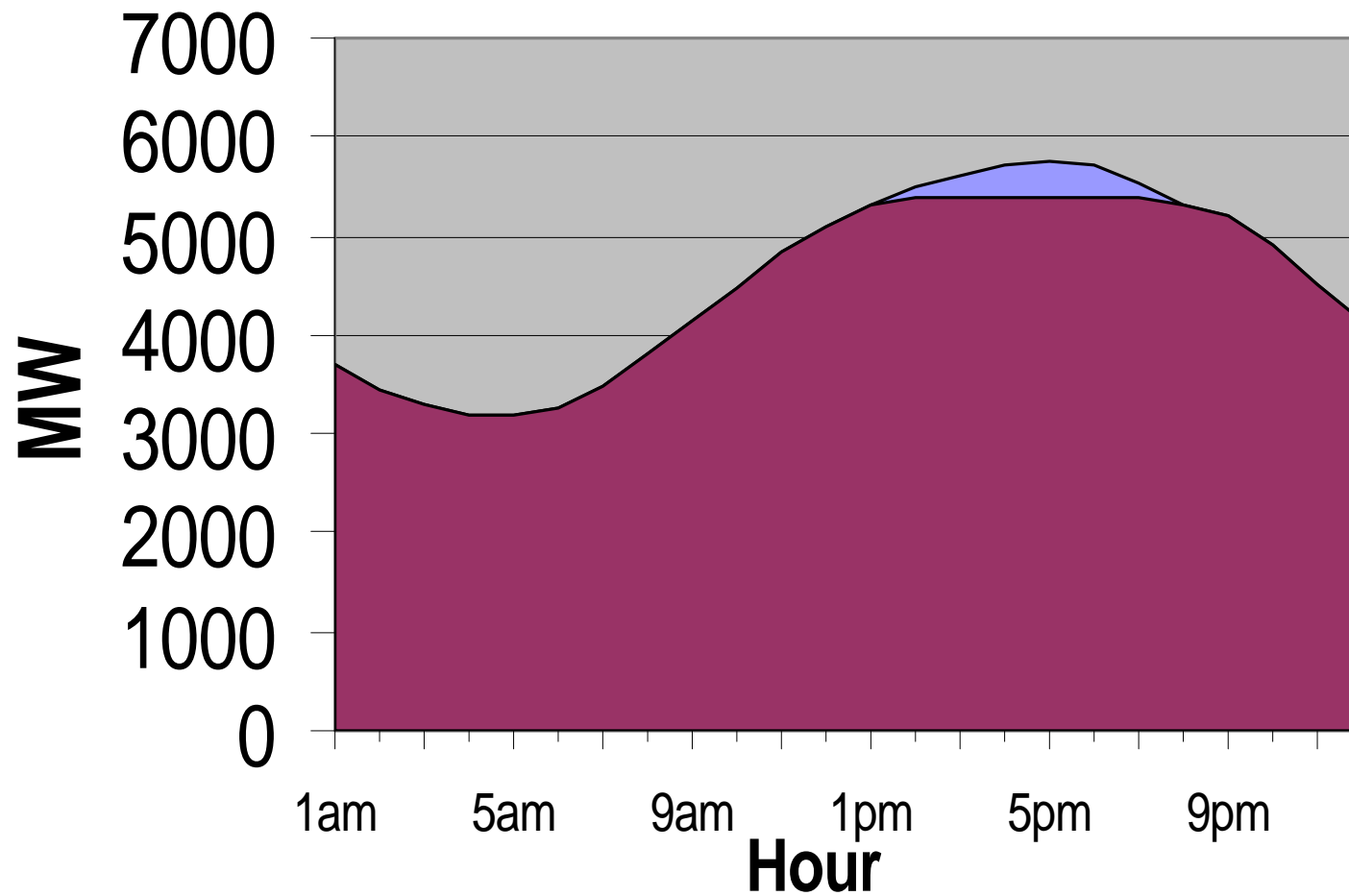
Rotating Blackouts - Last Resort

SRP Load Duration Curve - 500 hours



SRP System Load

(For Illustration Purposes Only)



Voltage Stability

- ⦿ **Studies indicate that, beginning this year, certain transmission line outages at peak load expose customers to an electric system voltage collapse and wide spread outages.**
- ⦿ **SRP has implemented a “remedial action scheme” to automatically shed load, if this situation occurs, limiting the impact.**
- ⦿ **The Santan expansion project will greatly reduce this exposure in the future.**

Items to be Completed ***BEFORE*** Rotating Blackouts

- **Purchase capacity and energy**
- **Bring all available units on line**
- **Cut interruptible loads**
- **Request emergency assistance**
- **Operate plants to emergency ratings**
- **Cut wholesale sales**
- **Initiate a public appeal**

How Will Rotating Blackouts Work?

- ⦿ **Circuits will be interrupted for a specific time period.**
- ⦿ **Order of interruption in a predetermined sequence by substation bay.**
 - **Each bay covers approximately 4 square miles**
- ⦿ **Critical circuits (hospitals, water treatment, communication, etc.) will be avoided.**

How Will Rotating Blackouts Work?

- ⦿ **Dedicated substations serving industrial customers are included in the rotation.**
- ⦿ **SRP will use all resources available for the restoration effort.**
- ⦿ **If more than one rotating blackout event is required, the process will begin where it left off in the previous event.**

How Will Rotating Blackouts Work?

- **Open enough circuits**
- **Begin restoration process**
 - Open new circuit
 - Close one in
- **Continue until no longer necessary**
- **Each circuit impacts approximately 750 customers.**

Rotating Blackout Alert Issued

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graph TD; A[Rotating Blackout Alert Issued] --> B[SRP Risk Manager]; B --> C[Emergency Room Staff]; C --> D[Communication Plan];
```

SRP Risk Manager

- Activates Emergency Room at Dispatching Center
- Notifies Maricopa County Dept of Emergency Services
- SRP dispatches operations personnel to County DOC
- Notifies SRP Crisis Management Team

Emergency Room Staff

- SRP Risk Manager, SRP Customer Service Rep, Media Relations Rep and Governmental Affairs Rep
- Coordinate with Dispatchers
- Inform Public Agencies for Duration of Event
- Information Source for Public Communications

Communication Plan

- Informs Public
- Informs Other Interested Parties